

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/003097

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 F16K 31/122

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16K 31

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KR.JP : classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,413,308 A (The Horton Company) 9 MAY 1995 See the whole document	1, 2
A	US 5,333,643 A (South Bend Controls, Inc.) 2 AUGUST 1994 See the whole document	1, 2
A	US 4,387,878 A (Eaton Corporation) 14 JUNE 1983 See the whole document	1, 2



Further documents are listed in the continuation of Box C.



See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

08 MARCH 2005 (08.03.2005)

Date of mailing of the international search report

11 MARCH 2005 (11.03.2005)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

HAN, Deok Won

Telephone No. 82-42-481-5471



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/003097

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5,413,308 A	09-05-1995	IL 0110853 A0 IL 0112530 A0 AU 7674894 A1 AU 1868095 A1	28-11-1994 08-12-1995 22-03-1995 14-08-1996
US 5,333,643 A	02-08-1994	NONE	
US 4,387,878 A	14-06-1983	CA 1195310 A1 BR 8204417 A AU 8560682 A1	15-10-1985 19-07-1983 20-01-1983